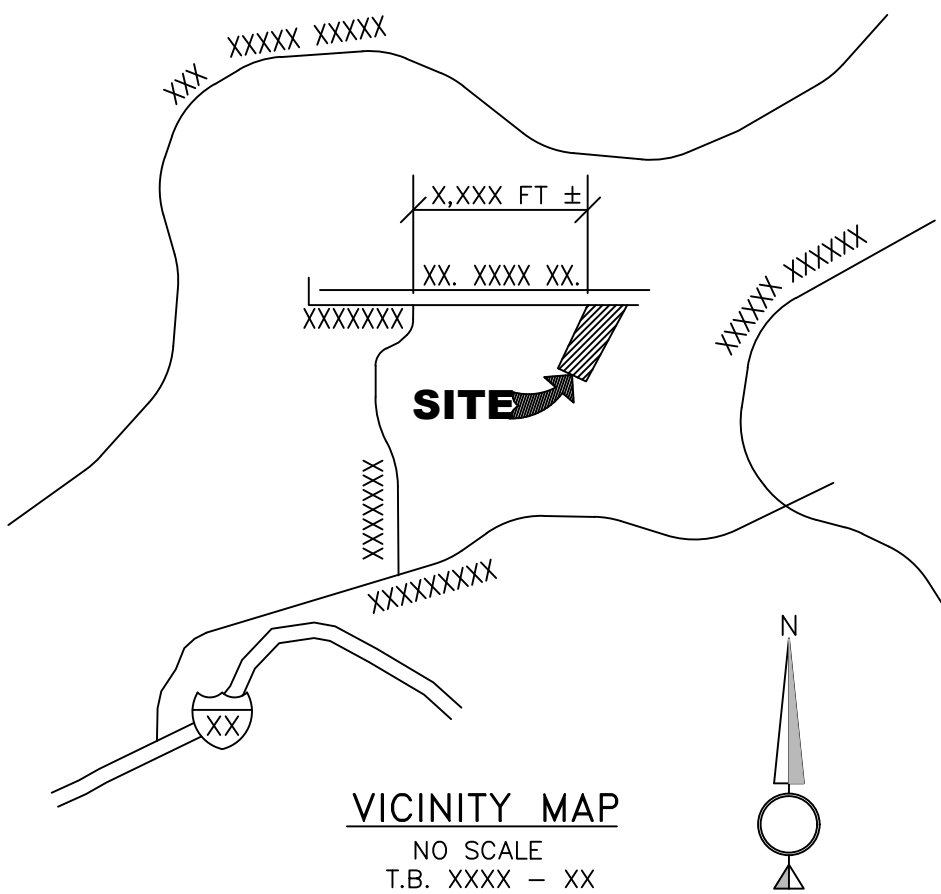


GENERAL NOTES

1. ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF COUNTY GRADING ORDINANCE SECTION 87.101 THROUGH 87.804.
2. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
3. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
4. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:
- 5.
- SAN DIEGO GAS AND ELECTRIC  
AT&T TELEPHONE  
CATV (AGENCY NAME)  
SEWER (AGENCY NAME)  
WATER (AGENCY NAME)

PHONE NUMBER:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. A SOILS REPORT WITH COMPACTION TESTS IS REQUIRED FOR ALL FILL OVER 12" IN DEPTH. PDS FORM 73 MINOR GRADING CERTIFICATION AND A COPY OF THE COMPACTION REPORT IS REQUIRED TO BE SUBMITTED PRIOR TO ROUGH GRADING APPROVAL.
7. NATURAL DRAINAGE SHALL NOT BE DIVERTED OR CONCENTRATED ONTO ADJACENT PROPERTY.
8. ALL GRADING DETAILS SHALL BE IN CONFORMANCE WITH THE FOLLOWING SAN DIEGO COUNTY DESIGN STANDARDS OR REGIONAL STANDARD DRAWINGS:
- DS-08 LOT GRADING  
DS-10 GRADING OF SLOPES  
DS-11 REQUIRED SETBACKS  
D-40 RIP RAP ENERGY DISSIPATER  
D-75 DRAINAGE DITCH
9. APPROVAL OF THESE PLANS BY THE DIRECTOR OF DEPARTMENT OF PLANNING AND DEVELOPMENT SERVICES (PDS) DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED. ISSUANCE OF A GRADING PERMIT SHALL CONSTITUTE AN AUTHORIZATION TO PERFORM ONLY THAT WORK WHICH IS DESCRIBED OR SHOWN ON THE GRADING PERMIT APPLICATION AND APPROVED GRADING PLANS.
10. THE DIRECTOR'S APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES (PDS).
11. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00AM AND 6:00PM EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
12. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
13. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTling, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
14. SLOPE RATIOS:
- CUT--1 ½: 1 FOR MINOR SLOPES (SLOPES < 15°), 2:1 FOR MAJOR SLOPES.
- FILL--2:1
- EXCAVATION: \_\_\_\_\_C. Y. FILL: \_\_\_\_\_ C. Y. WASTE/IMPORT \_\_\_\_\_C. Y.
- (NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS BEFORE PERMIT TO BE ISSUED).
15. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
16. PERMANENT POST-CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL FROM THE DEPARTMENT OF PUBLIC OF WORKS.
17. REGARDLESS OF WHICH BMPS ARE IMPLEMENTED, ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED AND MAINTAINED WITH GROUND COVER OR OTHER PLANTING IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED.

RESIDENTIAL MINOR GRADING PLAN



SHEET INDEX

SHEET 1	TITLE SHEET
SHEET 2	GRADING PLAN
SHEET 3	SOURCE CONTROL AND SITE DESIGN BMP NOTES
SHEET 4	STORM WATER QUALITY SITE DESIGN/BMP CONTROL DETAILS
SHEET 5	EROSION CONTROL NOTES AND TYPICAL BMP DETAILS
SHEET 6	EROSION CONTROL AND STORM WATER QUALITY BMP PLAN

DISTURBED AREA CALCULATIONS:

PAD + SLOPES: \_\_\_\_\_ SF

DRIVEWAY: \_\_\_\_\_ SF

PRIMARY SEPTIC: \_\_\_\_\_ SF

FIRE CLEARING: \_\_\_\_\_ SF

TOTAL: \_\_\_\_\_ SF

IF ≥1 AC, PROVIDE WDID# : \_\_\_\_\_

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

RCE NO.: \_\_\_\_\_

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES

OWNER'S CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETIONS OF THE IMPROVEMENTS.

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ASSESSOR'S PARCEL NO. \_\_\_\_\_

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_



COMPANY LOGO

COMPANY NAME

COMPANY ADDRESS:

PHONE NUMBER:

FIRE DEPARTMENT APPROVAL

FIRE DEPT. / DISTRICT \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

RCE NO: \_\_\_\_\_

PDS ENVIRONMENTAL REVIEW

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES INCLUDING, BUT NOT LIMITED TO THE FEDERAL ENDANGERED SPECIES ACT AND CLEAN WATER ACT. GRADING AND/OR FURTHER DEVELOPMENT ARE PROHIBITED WITHIN THE AREAS DESIGNATED "LIMITS OF JURISDICTIONAL HABITAT" UNTIL FEDERAL PERMITS AND STATE PERMITS (IF ANY) HAVE BEEN ACQUIRED.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:

WORK TO BE DONE:

GRADING AND DRAINAGE WORK CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT SAN DIEGO AREA REGIONAL STANDARD DRAWINGS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND PER SAN DIEGO COUNTY GRADING ORDINANCE.

GRADING PLAN LEGEND:

ITEM	STD. DWG./DETAIL	SYMBOL
CUT SLOPE:	.....	
FILL SLOPE	.....	
PROPERTY LINE	.....	
LIMITS OF GRADING & CUT/FILL LINE	.....	
DAYLIGHT LINE	.....	
EXISTING CONTOUR	.....	
FINISH CONTOUR	.....	
EXISTING RETAINING WALL	.....	
RETAINING WALL	SDRSD C-X OR SPECIAL DESIGN	
FINISH ELEVATIONS	.....	
ENERGY DISSIPATOR	SDRSD D-40, SPECS PER PLAN	
BROW DITCH	SDRSD D-75, TYPE B	

FOR IMPORT/EXPORT EARTHWORK Q>1,000 C.Y., NOTES REQUIRED AS FOLLOWS:

TRAFFIC CONTROL NOTES:

PRIOR TO BEGINNING OF GRADING, SUBMIT A TRAFFIC CONTROL PLAN AND HAUL ROUTE PLAN TO TRAFFIC DIVISION, DEPARTMENT OF PUBLIC WORKS (DPW) FOR APPROVAL INCLUDING:

- SPECIFIC TRUCK TRAVEL ROUTES.
- ANTICIPATED LENGTH OF GRADING PERIOD INVOLVING THE NEED FOR TRUCK IMPORTS OF SOIL.
- TIME OF OPERATIONS.
- EXISTING CONDITIONS OF THE IMPACTED ROAD AREAS – INCLUDING TRAFFIC AND ROAD CONDITIONS.
- TRAFFIC SAFETY INCLUDING SAFETY TO RESIDENTS ON FOOT, ON BICYCLE AND IN VEHICLES, AND POSSIBLE MITIGATION FOR AVOIDANCE OF SIGNIFICANT PEAK HOUR TRAFFIC AT CERTAIN INTERCHANGES.
- INTERCHANGE GEOMETRY TO DETERMINE IF IT WILL ALLOW SAFE USE BY THE TRUCKS.

DWELLING UNITS

INDICATE THE NUMBER OF DWELLING UNITS IN PROJECT: \_\_\_\_\_

INDICATE THE NUMBER OF GRADED PADS IN PROJECT: \_\_\_\_\_

STORMWATER STRUCTURAL POLLUTANT CONTROL & HYDROMODIFICATION CONTROL BMPS				
DESCRIPTION/TYPE	PLAN SHEET	BMP ID#	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT RECORDED DOC#

\* BMP'S APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SWQMP) DATED XX/XX/XXXX ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SWQMP REVISION AND PLAN CHANGE APPROVALS.

PERMITS

LANDSCAPE PERMIT NO. \_\_\_\_\_

WDID/NOI NO. \_\_\_\_\_ SWPPP RISK LEVEL \_\_\_\_\_

TENTATIVE MAP NO. \_\_\_\_\_

BENCH MARK

DESCRIPTION: \_\_\_\_\_

LOCATION: \_\_\_\_\_

RECORD FROM: \_\_\_\_\_

ELEVATION: \_\_\_\_\_ DATUM: \_\_\_\_\_

DATUM: \_\_\_\_\_

PRIVATE CONTRACT

SHEET 1	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	XX SHEETS
---------	--	-----------

TITLE SHEET FOR:

XXXXXXX XXXXXXXX

CALIFORNIA COORDINATE INDEX XXX-XXXX

APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER

SEE CERTIFICATION

ENGINEER OF WORK:

R.C.E.: \_\_\_\_\_ DATE: \_\_\_\_\_

GRADING PERMIT NO: PDS20XX-LDGRMN-2XXXX

ENGINEER'S NAME: XXXXXXXXXXXXXXXXXXXX  
PHONE NO. (XXX)XXX-XXXX // EMAIL: XXXXXXXX@XXXXXXXXX.XXX



PERMANENT POST-CONSTRUCTION SOURCE CONTROL AND SITE DESIGN BMP NOTES:

SOURCE CONTROL BMP REQUIREMENTS:

ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SOURCE CONTROL BMPs 4.2.1 THROUGH 4.2.6 WHERE APPLICABLE AND FEASIBLE. SEE CHAPTER 4.2 AND APPENDIX E OF THE COUNTY BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT SOURCE CONTROL BMPs SHOWN BELOW:

- 4.2.1
- PREVENT ILLICIT DISCHARGES INTO THE MS4.
- 4.2.2
- IDENTIFY THE STORM DRAIN SYSTEM USING STENCILING AND SIGNAGE
- 4.2.3
- PROTECT OUTDOOR MATERIAL STORAGE AREAS FROM RAINFALL, RUN-ON, RUN-OFF, AND WIND DISPERSAL
- 4.2.4
- PROTECT MATERIALS STORED IN OUTDOOR WORK AREAS FROM RAINFALL, RUN-ON, RUN-OFF, AND WIND DISPERSAL
- 4.2.5
- PROTECT TRASH STORAGE FROM RAINFALL, RUN-ON, RUN-OFF, AND WIND DISPERSAL
- 4.2.6
- USE OF ANY ADD'L BMPs DETERMINED TO BE NECESSARY BY THE COUNTY TO MINIMIZE POLLUTANT GENERATION AT EACH PROJECT SITE

SOURCE CONTROL BMP NOTES:

- SC-A
- ON-SITE STORM DRAIN INLETS
1. MARK ALL INLETS WITH THE WORDS "NO DUMPING DRAINS TO WATERWAYS" OR SIMILAR. SEE STENCIL TEMPLATE PROVIDED ON THE SHEET.
- SC-B
- INTERIOR DRAINS PLUMBED TO SANITARY SEWER
1. INTERIOR FLOOR DRAINS AND ELEVATOR SHAFT SUMP PUMPS SHALL BE PLUMBED TO SANITARY SEWER.
- SC-C
- INTERIOR PARKING GARAGES TO SANITARY SEWER
1. PARKING GARAGE FLOOR DRAINS SHALL BE PLUMBED TO THE SANITARY SEWER.
- SC-D
- NEED FOR FUTURE INDOOR AND STRUCTURAL PEST CONTROL
1. NOTE BUILDING DESIGN FEATURES THAT DISCOURAGE ENTRY OF PESTS.
2. PRESERVE EXISTING DROUGHT TOLERANT TREES, SHRUBS, AND GROUND COVER TO THE MAXIMUM EXTENT POSSIBLE.
3. DESIGN LANDSCAPING TO MINIMIZE IRRIGATION AND RUNOFF, TO PROMOTE SURFACE INFILTRATION WHERE APPROPRIATE, AND TO MINIMIZE THE USE OF FERTILIZERS AND PESTICIDES THAT CAN CONTRIBUTE TO STORM WATER POLLUTION.
4. WHERE LANDSCAPED AREAS ARE USED TO RETAIN OR DETAIN STORM WATER, SPECIFY PLANTS THAT ARE TOLERANT OF PERIODIC SATURATED SOIL CONDITIONS.
5. CONSIDER USING PEST-RESISTANT PLANTS, ESPECIALLY ADJACENT TO HARDCAPE.
6. TO ENSURE SUCCESSFUL ESTABLISHMENT, SELECT PLANTS APPROPRIATE TO SITE SOILS, SLOPES, CLIMATE, SUN, WIND, RAIN, LAND USE, AIR MOVEMENT, ECOLOGICAL CONSISTENCY, AND PLANT INTERACTIONS.
- SC-E
- POOLS, SPAS, PONDS WITH ACCESSIBLE SANITARY SEWER
1. IF POOLS WILL BE PLUMBED TO THE SANITARY SEWER, ENSURE THAT THIS CONNECTION WILL BE MADE ACCORDING TO COUNTY OF SAN DIEGO REQUIREMENTS.
- SC-F
- FOOD SERVICE
1. SHOW LOCATION OF THE DESIGNATED CLEANING AREA
2. ADD NOTE ON HOW THE ITEMS WILL BE CLEANED IN THE FACILITY AND HOW IT HAS BEEN SIZED TO ENSURE THAT THE LARGEST ITEMS CAN BE ACCOMMODATED
- SC-G
- TRASH OF REFUSE EXPOSURE REDUCTION
1. SIGNS SHALL BE POSTED ON OR NEAR DUMPSTERS WITH THE WORDS "DO NOT DUMP HAZARDOUS MATERIALS HERE" OR SIMILAR.
2. COVER STORAGE CONTAINERS WITH LEAK PROOF LIDS OR SOME OTHER MEANS. IF WASTE IS NOT IN CONTAINERS, COVER ALL WASTE PILES (PLASTIC TARP ARE ACCEPTABLE COVERAGE) AND PREVENT STORMWATER RUNON AND RUNOFF WITH A BERM. THE WASTE CONTAINERS OR PILES MUST BE COVERED EXCEPT WHEN IN USE.
3. POST "NO LITTERING" SIGNS AND ENFORCE ANTI-LITTER LAWS.
4. PREVENT STORMWATER RUNON FROM ENTERING THE WASTE MANAGEMENT AREA BY ENCLOSING THE AREA OR BUILDING AND BERM AROUND THE AREA.
- SC-H
- INDUSTRIAL PROCESSES PERFORMED INDOORS
1. IF INDUSTRIAL PROCESSES ARE TO BE LOCATED ONSITE, STATE: "ALL PROCESS ACTIVITIES TO BE PERFORMED INDOORS. NO PROCESSES TO DRAIN TO EXTERIOR OR TO STORM DRAIN SYSTEM."
- SC-I
- STORAGE OF EQUIPMENT/MATERIALS EXPOSURE REDUCTION
1. STORAGE OF NON-HAZARDOUS LIQUIDS MUST BE COVERED BY A ROOF AND/OR DRAIN TO THE SANITARY SEWER SYSTEM, AND BE CONTAINED BY BERMS, DIKES, LINERS, OR VAULTS.
2. STORAGE OF HAZARDOUS MATERIALS AND WASTES MUST BE IN COMPLIANCE WITH THE LOCAL HAZARDOUS MATERIALS ORDINANCE AND A HAZARDOUS MATERIALS MANAGEMENT PLAN FOR THE SITE.
- SC-J/K/L
- VEHICLE AND EQUIPMENT CLEANING, REPAIR AND MAINTENANCE
1. INDICATE CAR WASH AREA ON PLANS, IF NOT PROVIDED POST SIGNS TO DISCOURAGE ONSITE CAR WASHING.
2. STATE THAT NO VEHICLE REPAIR OR MAINTENANCE WILL BE DONE OUTDOORS, OR ELSE DESCRIBE THE REQUIRED FEATURES OF THE OUTDOOR WORK AREA.
3. STATE THAT THERE ARE NO FLOOR DRAINS OR IF THERE ARE FLOOR DRAINS, NOTE THE AGENCY FROM WHICH AN INDUSTRIAL WASTE DISCHARGE PERMIT WILL BE OBTAINED AND THAT THE DESIGN MEETS THAT AGENCY'S REQUIREMENTS.
4. STATE THAT THERE ARE NO TANKS, CONTAINERS OR SINKS TO BE USED FOR PARTS CLEANING OR RINSING OR, IF THERE ARE, NOTE THE AGENCY FROM WHICH AN INDUSTRIAL WASTE DISCHARGE PERMIT WILL BE OBTAINED AND THAT THE DESIGN MEETS THAT AGENCY'S REQUIREMENTS.

- SC-M
- FUEL DISPENSING COVERAGE AND GRADING REQUIREMENTS
1. FUELING AREAS (THE FUELING AREA MUST BE DEFINED AS THE AREA EXTENDING A MINIMUM OF 6.5 FEET FROM THE CORNER OF EACH FUEL DISPENSER OR THE LENGTH AT WHICH THE HOSE AND NOZZLE ASSEMBLY MAY BE OPERATED PLUS A MINIMUM OF ONE FOOT, WHICHEVER IS GREATER) MUST HAVE IMPERMEABLE FLOORS (I.E., PORTLAND CEMENT CONCRETE OR EQUIVALENT SMOOTH IMPERVIOUS SURFACE) THAT ARE (1) GRADED AT THE MINIMUM SLOPE NECESSARY TO PREVENT PONDING, AND (2) SEPARATED FROM THE REST OF THE SITE BY A GRADE BREAK THAT PREVENTS RUN-ON OF STORM WATER TO THE MEP.
2. FUELING AREAS MUST BE COVERED BY A CANOPY THAT EXTENDS A MINIMUM OF TEN FEET IN EACH DIRECTION FROM EACH PUMP. (ALTERNATIVE: THE FUELING AREA MUST BE COVERED AND THE COVER'S MINIMUM DIMENSIONS MUST BE EQUAL TO OR GREATER THAN THE AREA WITHIN THE GRADE BREAK OR FUEL DISPENSING AREA.) THE CANOPY (OR COVER) MUST NOT DRAIN INTO THE FUELING AREA. IF POSSIBLE USE A PERIMETER DRAIN OR SLOPE PAVEMENT INWARD WITH DRAINAGE TO A BLIND SUMP (MUST BE PROPERLY MAINTAINED AND WATER PROPERLY DISPOSED OF); PAVE AREA WITH CONCRETE RATHER THAN ASPHALT.
- SC-N
- LOADING DOCKS COVERAGE AND GRADING REQUIREMENTS
1. ROOF DOWNSPOUTS MUST BE POSITIONED TO DIRECT STORM WATER AWAY FROM THE LOADING AREA. WATER FROM LOADING DOCK AREAS SHOULD BE DRAINED TO THE SANITARY SEWER WHERE FEASIBLE. DIRECT CONNECTIONS TO STORM DRAINS FROM DEPRESSED LOADING DOCKS ARE PROHIBITED.
2. LOADING DOCK AREAS DRAINING DIRECTLY TO THE SANITARY SEWER MUST BE EQUIPPED WITH A SPILL CONTROL VALVE OR EQUIVALENT DEVICE, WHICH MUST BE KEPT CLOSED DURING PERIODS OF OPERATION.
3. PROVIDE A ROOF OVERHANG OVER THE LOADING AREA OR INSTALL DOOR SKIRTS (COWLING) AT EACH BAY THAT ENCLOSE THE END OF THE TRAILER.
- SC-O
- FIRE SPRINKLER TEST WATER
1. SHOW DRAINAGE CONNECTION TO DRAIN FIRE SPRINKLER WATER TO THE SANITARY SEWER.
- SC-P
- MISCELLANEOUS DRAIN OR WASH WATER
1. BOILER DRAIN LINES MUST BE DIRECTLY OR INDIRECTLY CONNECTED TO THE SANITARY SEWER SYSTEM AND MAY NOT DISCHARGE TO THE STORM DRAIN SYSTEM.
2. CONDENSATE DRAIN LINES MAY DISCHARGE TO LANDSCAPED AREAS IF THE FLOW IS SMALL ENOUGH THAT RUNOFF WILL NOT OCCUR. CONDENSATE DRAIN LINES MAY NOT DISCHARGE TO THE STORM DRAIN SYSTEM.
3. ROOFTOP MOUNTED EQUIPMENT WITH POTENTIAL TO PRODUCE POLLUTANTS MUST BE ROOFED AND/OR HAVE SECONDARY CONTAINMENT.
4. ANY DRAINAGE SUMPS ONSITE MUST FEATURE A SEDIMENT SUMP TO REDUCE THE QUANTITY OF SEDIMENT IN PUMPED WATER.
5. AVOID ROOFING, CUTTERS, AND TRIM MADE OF COPPER OR OTHER UNPROTECTED METALS THAT MAY LEACH INTO RUNOFF.
- SC-Q
- PLAZAS, SIDEWALKS, AND PARKING LOTS
1. IDENTIFY AREAS AND PROVIDE ADEQUATE DRAINAGE. PROVIDE STORM WATER QUALITY MEASURES OR EXPLANATION.
- SC-6A
- LARGE TRASH GENERATING FACILITY BMPs
63. ENCLOSURES SHALL BE STRUCTURALLY STRONG AND CONSTRUCTED OF REINFORCED MASONRY BLOCK OR WOOD PANELS/BOARDS. REFER TO COUNTY STAFF FOR SPECIFIC GUIDELINES.
3. THE ENCLOSURE SLAB SHOULD BE DESIGNED TO KEEP STORM WATER DRAINAGE OUT OF THE ENCLOSURE AREA, TYPICALLY SLOPED AT 0.5%. SLAB CONSTRUCTION SPECIFICATIONS WILL VARY ACCORDING TO METHODS OF CONSTRUCTION, BUT SHOULD BE AT LEAST 4 INCHES OF REINFORCED CONCRETE.
4. STURDY GATES/DOORS SHALL BE INSTALLED ON ALL ENCLOSURES. GATES SHOULD NOT BE MOUNTED DIRECTLY ONTO THE BLOCK WALL OR INSIDE OF ENCLOSURE. THE ENCLOSURE SHOULD INCLUDE HARDWARE TO SECURE THE GATE'S DOORS BOTH OPEN AND CLOSED (I.E., CAME BOLT W/SLEEVE AND LATCH BETWEEN DOORS AND SLEEVE IN PAVEMENT).
5. TO PREVENT TRASH ENCLOSURES FROM CONTRIBUTING TO STORM WATER RUNOFF POLLUTION, ALL ENCLOSURES MUST BE FITTED WITH A ROOF DESIGNED TO DRAIN INTO ON-SITE LANDSCAPE AREAS (WHERE NECESSARY) AND/OR TO APPROPRIATE BMPs. THE ROOF MUST PROVIDE SUFFICIENT CLEARANCE TO ALLOW THE DUMPSTER LID TO OPEN TO THE 90 DEGREE POSITION.
6. ENCLOSURE ROOFS NOT CONFORMING TO COUNTY SPECIFICATIONS FOR PATIO COVERS MAY REQUIRE A BUILDING PERMIT. GENERALLY ROOFS NOT MORE THAN 12 FEET IN HEIGHT ABOVE GRADE AND CONSTRUCTED WITH CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION ARE CONSIDERED ACCEPTABLE. THE USE OF METAL ROOFS IS NOT RECOMMENDED AS THEY CAN ACT AS A SOURCE OF POLLUTANTS.
- SC-6B
- ANIMAL FACILITIES
1. DRY WEATHER RUNOFF MUST BE CONTROLLED. DRY WEATHER RUNOFF FROM HOSED OFF AREAS AS PART OF ANIMAL FACILITY OPERATIONS MUST NOT DRAIN TO THE MS4. DRY WEATHER FLOWS SHOULD BE RETAINED ON-SITE THROUGH IMPLEMENTATION OF BMPs OR COLLECTED AND DISCHARGED TO THE SANITARY SEWER.
2. OUTDOOR ACTIVITY AREAS MUST BE IDENTIFIED ON SITE PLANS. PLAN REVIEWERS MUST BE ABLE TO ENSURE THAT RUNOFF FROM THESE AREAS IS EITHER DIVERTED TO THE SANITARY SEWER OR DIRECTED TO APPROPRIATE TREATMENT BMPs. ON-SITE INSPECTION OF FACILITIES, GRADING, AND DRAINAGE MAY BE REQUIRED.
3. TRASH ENCLOSURES WITHIN ANIMAL FACILITIES MUST BE COVERED TO MINIMIZE DIRECT PRECIPITATION AND PREVENT RAINFALL FROM ENTERING ENCLOSURES. STRUCTURAL OVERHEAD COVERS ARE REQUIRED AS CONTAINER LIDS ARE OFTEN LEFT OPEN.
- SC-6C
- PLANT NURSERIES AND GARDEN FACILITIES
1. OWNER MUST PROVIDE BMP STORMWATER TRAINING TO APPROPRIATE EMPLOYEES. EMPLOYEE PARTICIPATION IS REQUIRED TO ENSURE THAT SOURCE CONTROLS ARE PROPERLY MAINTAINED AND BEHAVIORAL BMPs ARE FOLLOWED.
2. ELIMINATE OVERWATERING AND OVER SPRAYING OF PLANTS. OVERWATERING AND OVER SPRAYING OF PLANTS INCREASES DRY WEATHER FLOWS AND POLLUTANT LOADING, AND WASTES WATER, DELIVERY SYSTEMS AND SCHEDULES SHOULD ACCOUNT FOR DIFFERENT PLANT TYPES AND CONTAINERS.
3. DISCHARGES FROM OUTDOOR WATERING AREAS MUST BE CONTROLLED. REGULAR RUNOFF FROM OUTDOOR WATERING CAN CONTRIBUTE UN-AUTHORIZED DRY WEATHER FLOWS TO THE MS4 (E.G., RUNOFF FROM WATERING THE PLANTS AT GARDEN CENTERS). RUNOFF WATER IS ALSO LIKELY TO BE POLLUTED BY POTTING SOIL MIXES AND PLANTS THAT CONTAIN FERTILIZERS AND/OR PESTICIDES. SO, REGULAR RUNOFF SHOULD BE TREATED AND/OR RETAINED ON-SITE THROUGH BMPs OR DISCHARGED TO THE SANITARY SEWER.
- SC-6D
- AUTOMOTIVE FACILITY BMPs
1. AUTO REPAIR, MAINTENANCE ACTIVITIES, FUELING, AND VEHICLE WASHING MUST BE CONDUCTED IN COVERED AREAS. COVERS 10 FEET HIGH OR LESS SHOULD HAVE A MINIMUM OVERHANG OF 3 FEET ON EACH SIDE, COVERS HIGHER THAN 10 FEET SHOULD HAVE A MINIMUM OVERHANG OF 5 FEET ON EACH SIDE. OVERHANG SHOULD BE MEASURED FROM THE PERIMETER OF THE HYDRAULICALLY ISOLATED ACTIVITY AREA.
2. ACTIVITY AREAS SHOULD BE PROTECTED FROM RUN-ON THROUGH THE USE OF GRADING, BERMS, OR DRAINS. DIRECT DRAINAGE FROM THE HYDRAULICALLY ISOLATED AREA TO AN APPROVED SANITARY SEWER OR A BMP.
3. PAVE ACTIVITY AREAS WITH HYDRAULIC CONCRETE OR APPROPRIATELY SEALED ASPHALT CEMENT.

SITE DESIGN BMP REQUIREMENTS:

ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SITE DESIGN BMPs 4.3.1 THROUGH 4.3.8 WHERE APPLICABLE AND FEASIBLE. SEE CHAPTER 4.3 AND APPENDIX E OF THE COUNTY BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT SITE DESIGN BMPs SHOWN IN THIS CHECKLIST.

- 4.3.1
- MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
1. A SETBACK OF 50 TO 200 FEET IS REQUIRED FOR DEVELOPMENT ADJACENT TO WATERS OF THE U.S. NO STRUCTURAL BMPs ARE TO BE PLACED IN BUFFER ZONES.
2. USE A CONSTRUCTION FENCE OR SILT FENCE AROUND THE BUFFER ZONE TO PREVENT CONSTRUCTION EQUIPMENT FROM ENTERING.
- 4.3.2
- CONSERVE NATURAL AREAS, SOILS AND VEGETATION
- 4.3.3
- MINIMIZE IMPERVIOUS AREA
- 4.3.4
- MINIMIZE SOIL COMPACTION
- 4.3.5
- DISPERSE IMPERVIOUS AREAS
- 4.3.6
- COLLECTION OF RUN-OFF
- 4.3.7
- LANDSCAPE WITH NATIVE OR DROUGHT TOLERANT SPECIES

ADDITIONAL BMP NOTES:

1. THESE BMPs ARE MANDATORY TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR THESE PLANS.
2. NO CHANGES TO THE PROPOSED BMPs ON THIS SHEET WITHOUT PRIOR APPROVAL FROM THE COUNTY.
3. NO SUBSTITUTIONS TO THE MATERIAL, TYPES, OR PLANTING TYPES WITHOUT PRIOR APPROVAL FROM THE COUNTY ENGINEER.
4. NO OCCUPANCY WILL BE GRANTED UNTIL THE COUNTY STAFF HAS INSPECTED THIS PROJECT FOR APPROPRIATE BMP CONSTRUCTION AND INSTALLATION.
5. ALL VEGETATED BMPs SHALL BE SHOWN ON LANDSCAPE PLANS PER PERMIT #-----.
6. REFER TO THE MAINTENANCE PLAN IN ATTACHMENT 3 OF SWMP FOR ACCESS TO STRUCTURAL BMPs TO INSPECT AND PERFORM MAINTENANCE, FEATURES PROVIDED TO FACILITATE INSPECTION, MAINTENANCE THRESHOLDS, RECOMMENDED EQUIPMENT TO PERFORM MAINTENANCE, AND SPECIAL TRAINING OR CERTIFICATION REQUIREMENTS FOR INSPECTION AND MAINTENANCE PERSONNEL.
7. ALL GRADING CONTOURS SHALL BE CONSISTENT WITH DMA EXHIBIT.
8. SEE PROJECT SWQP FOR ADDITIONAL INFORMATION.

SOURCE CONTROL BMPs				
SYMBOL	QUANTITY	BMP TYPE	BMP DM FACT SHEET ID	SHEET NO. (S)
SITE DESIGN BMPs				
SYMBOL	QUANTITY	BMP TYPE	BMP DM FACT SHEET ID	SHEET NO. (S)

GRADING PLAN CERTIFICATION:

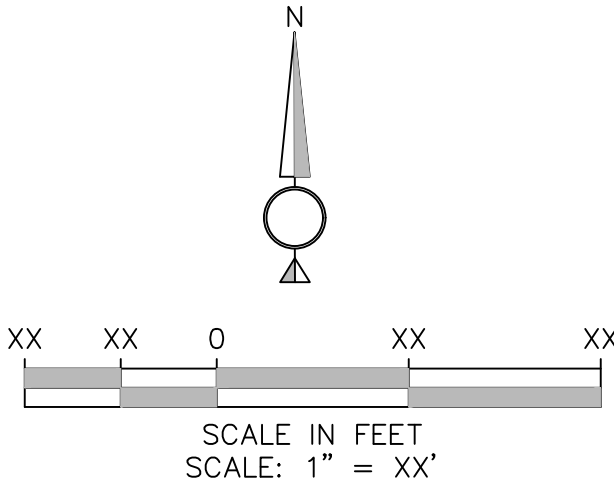
I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: \_\_\_\_\_DATE: \_\_\_\_\_

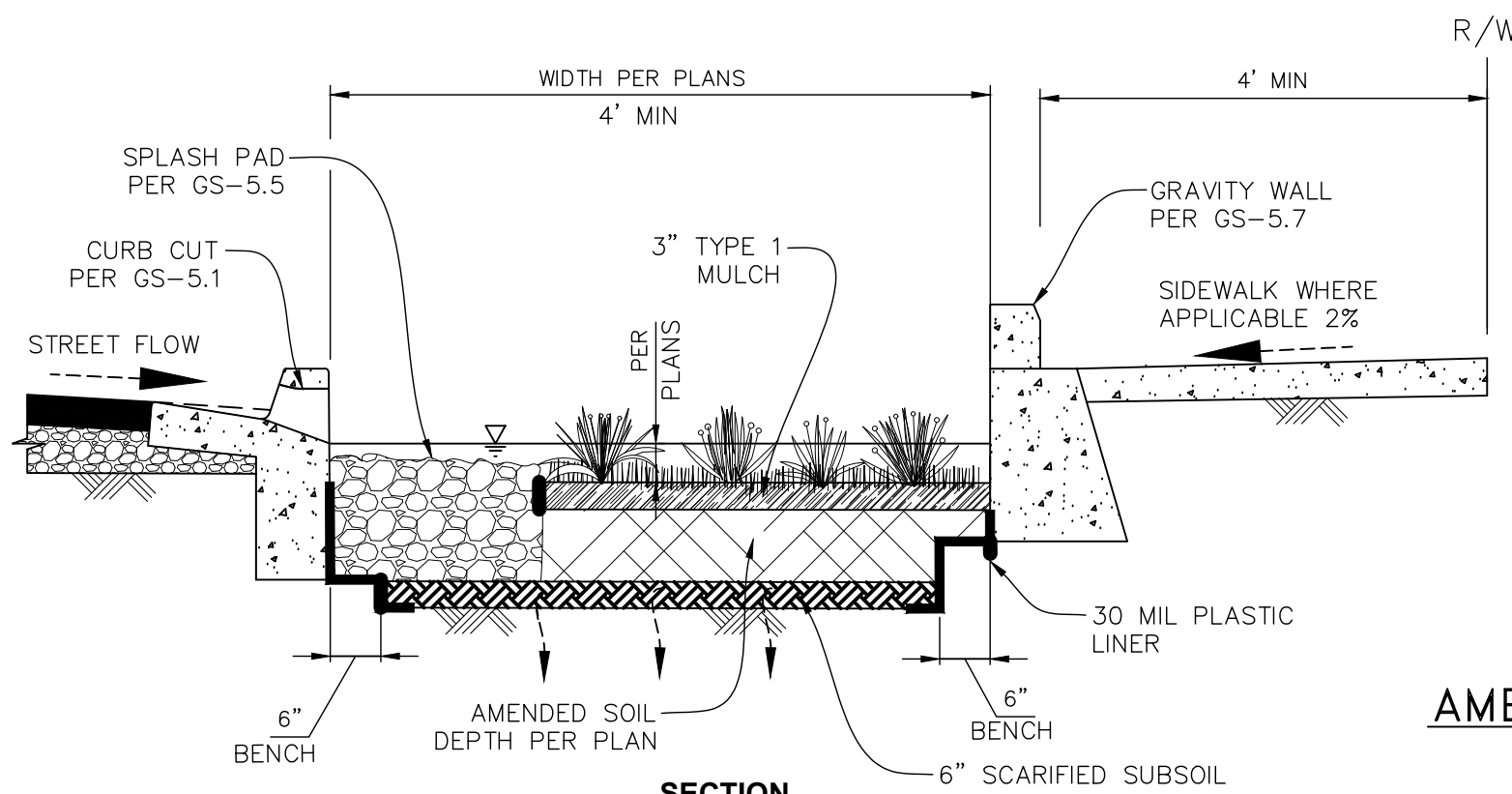
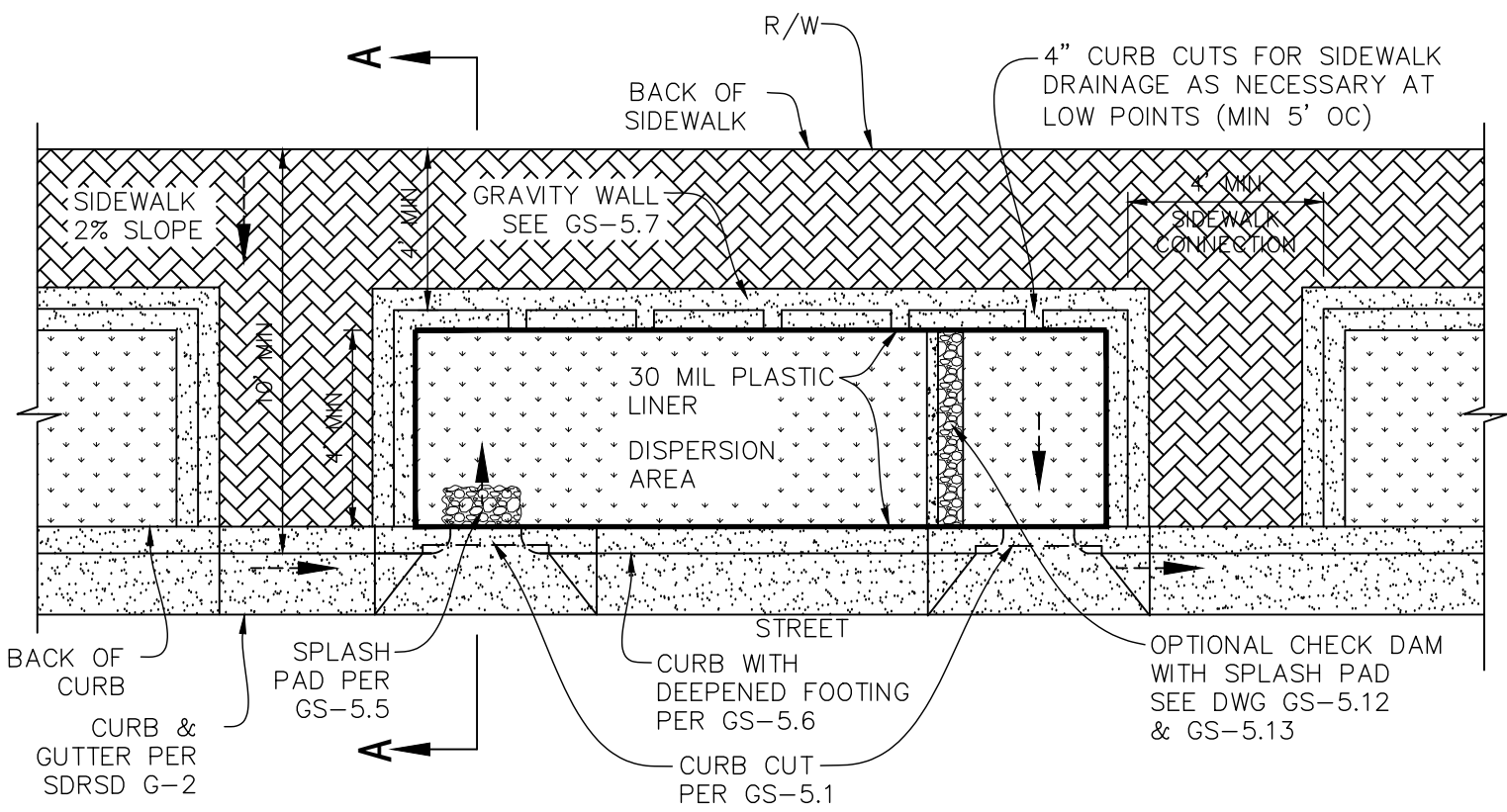
RCE NO.: \_\_\_\_\_

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

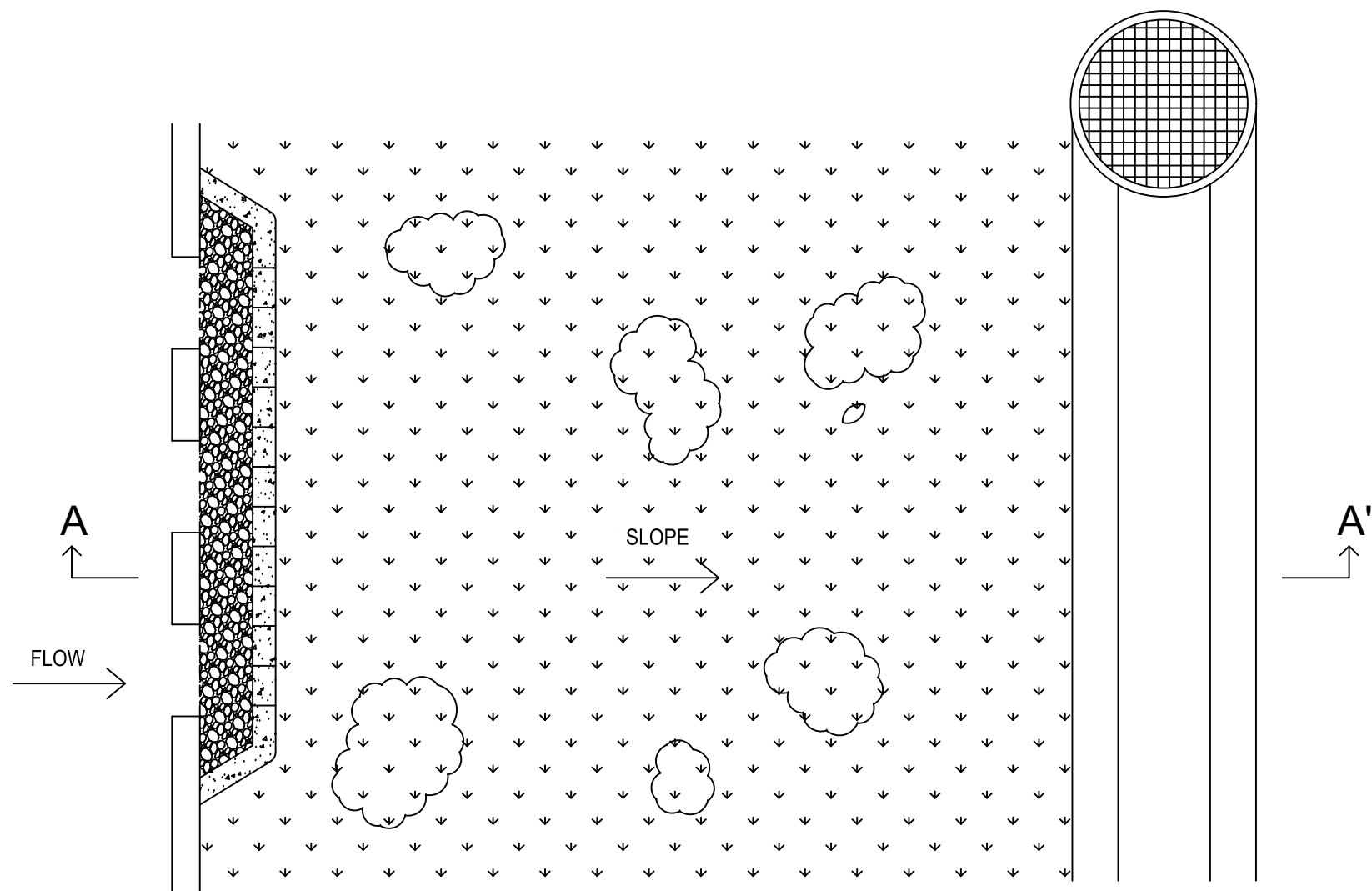
BY: \_\_\_\_\_DATE: \_\_\_\_\_  
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES



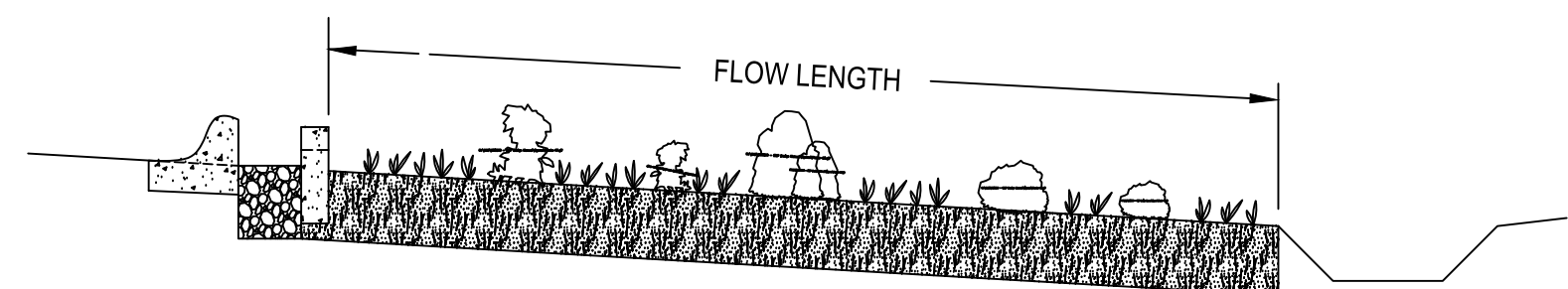




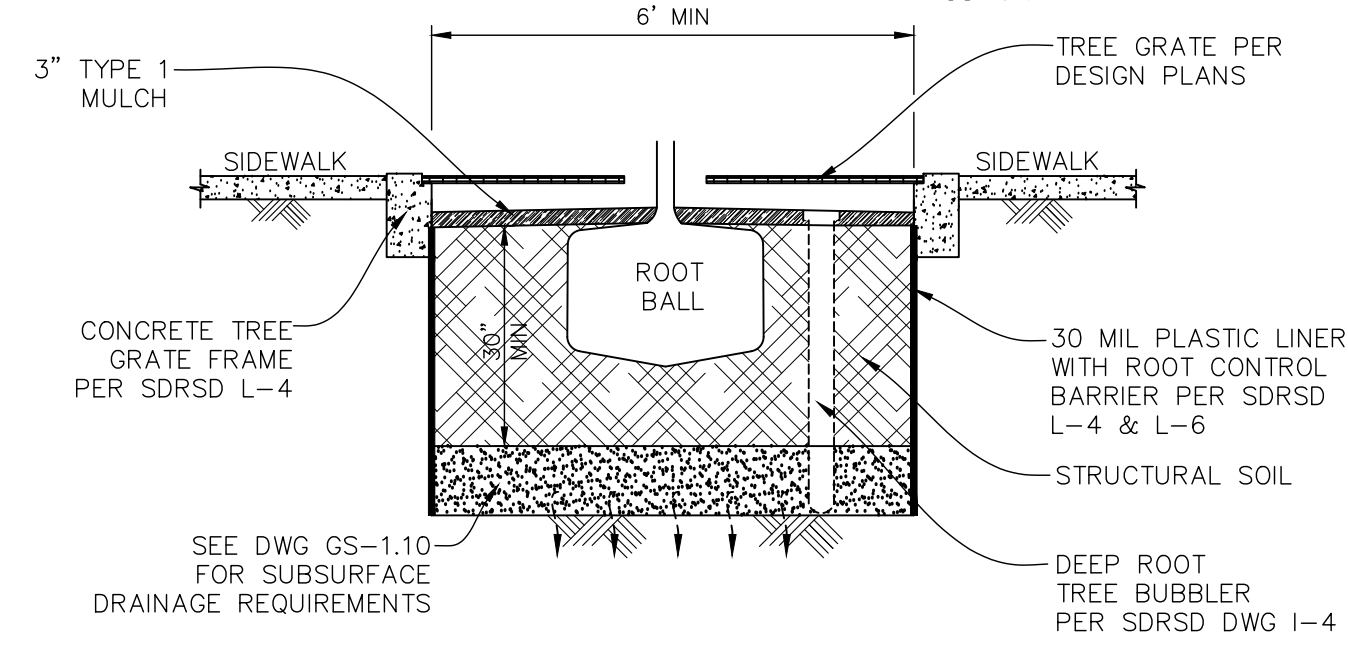
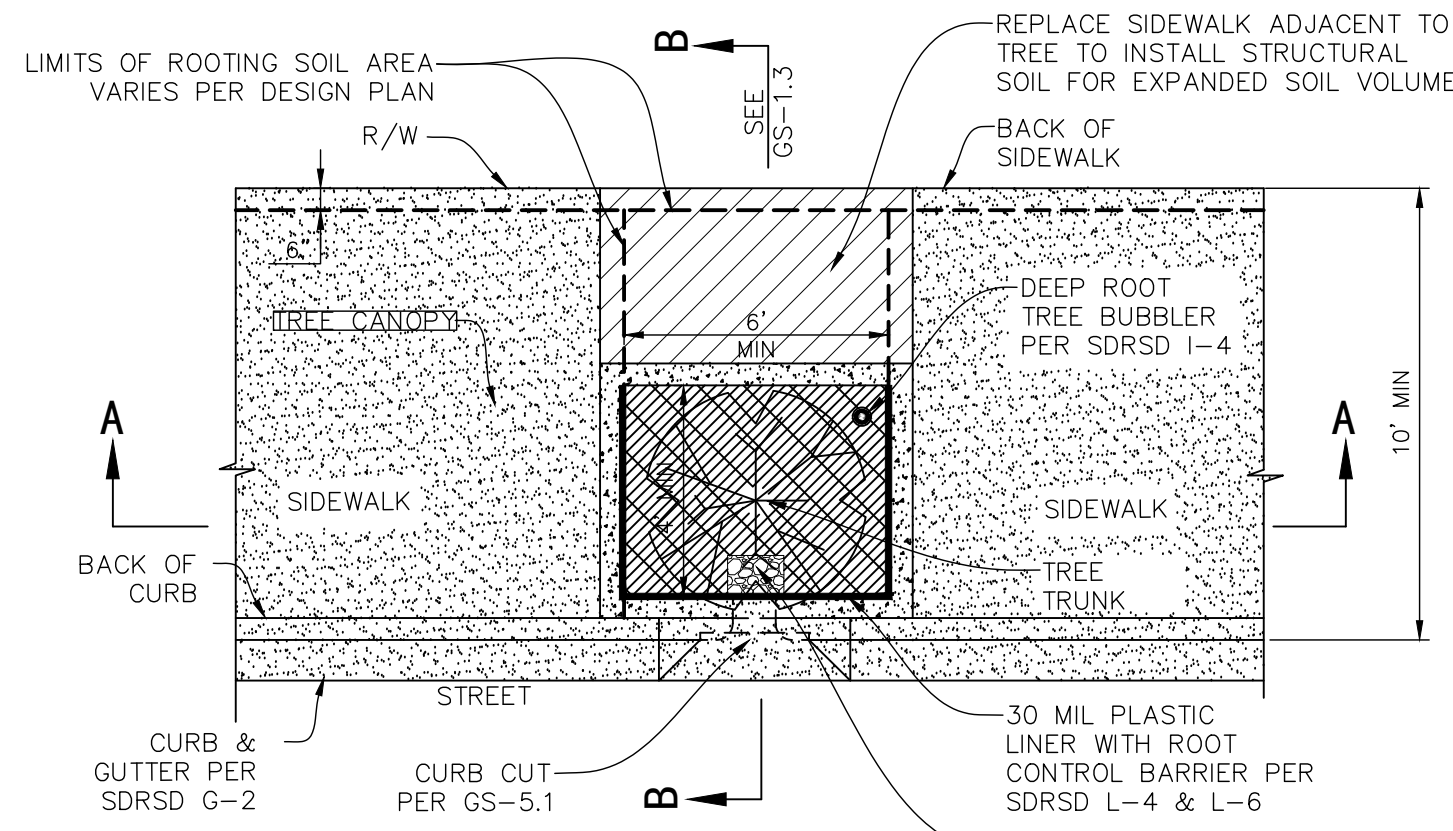
AMENDED SOIL  
NO SCALE  
SD-F



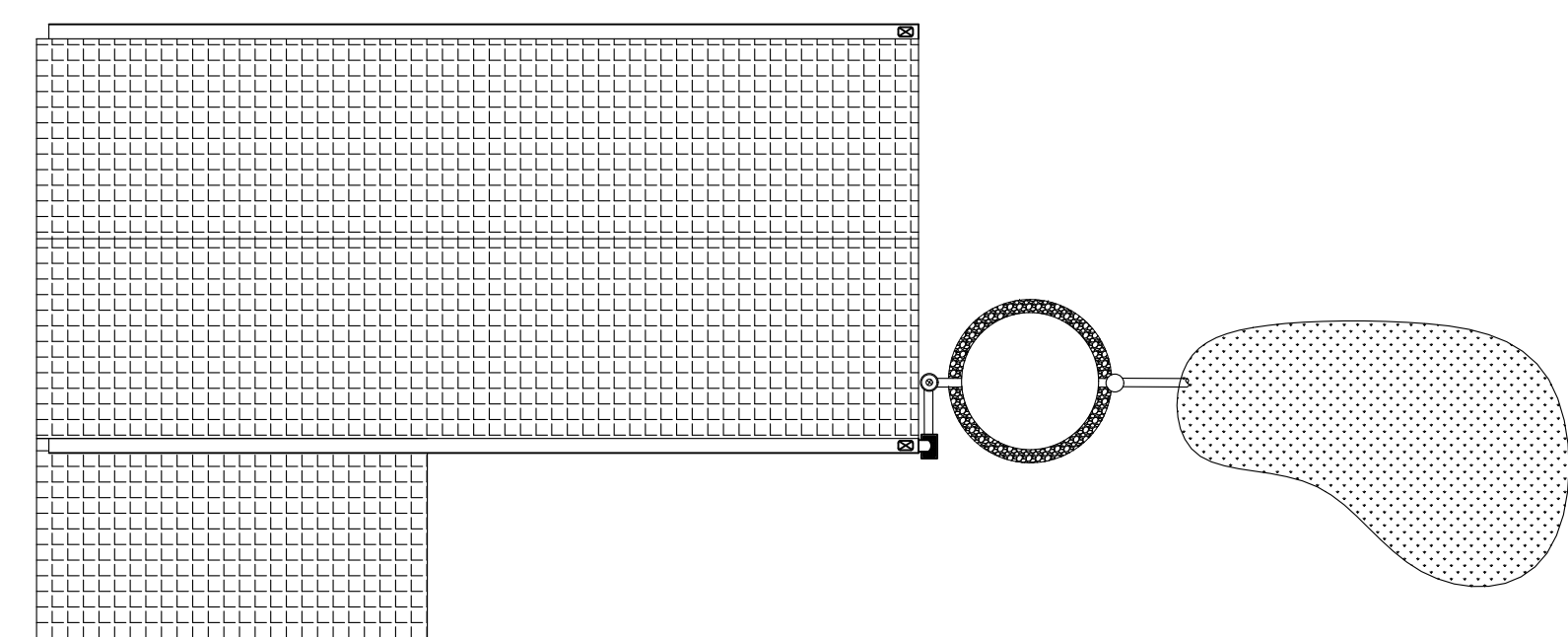
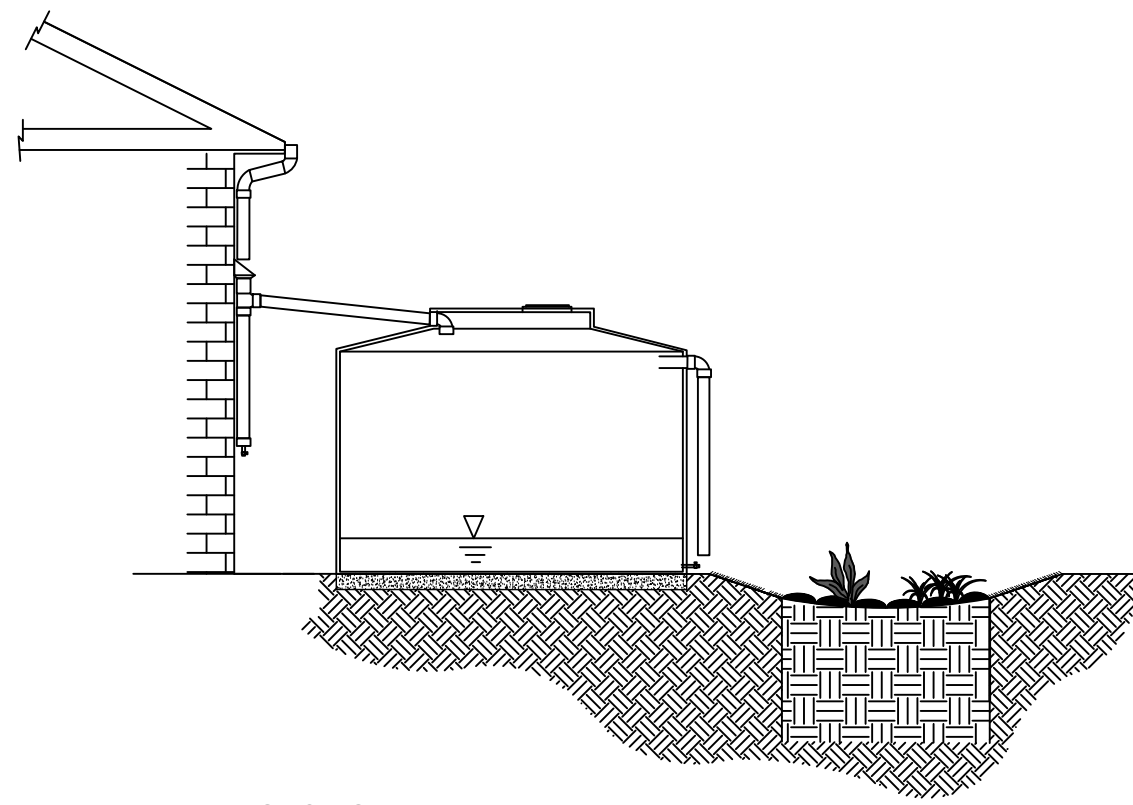
PLAN  
NOT TO SCALE



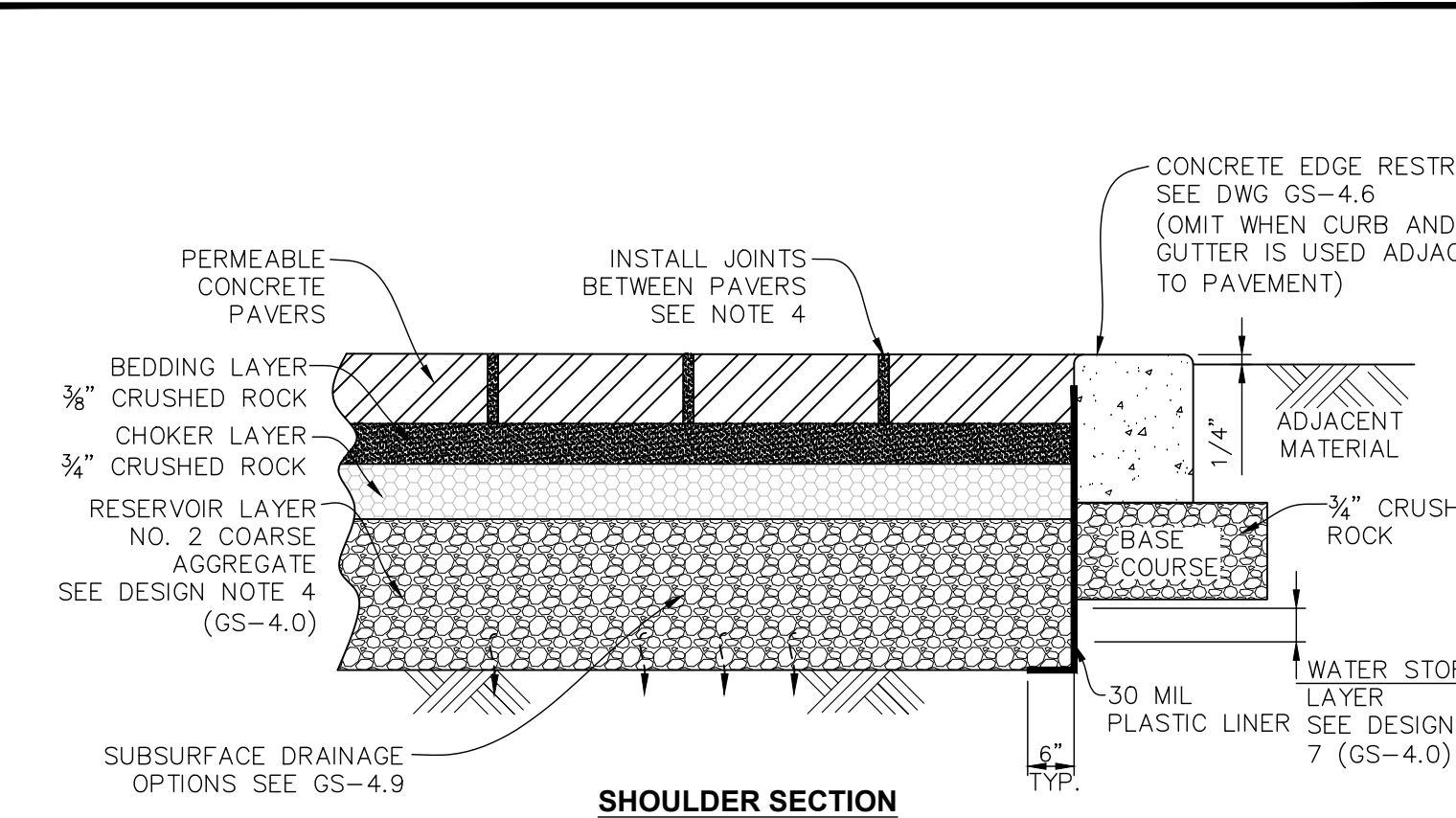
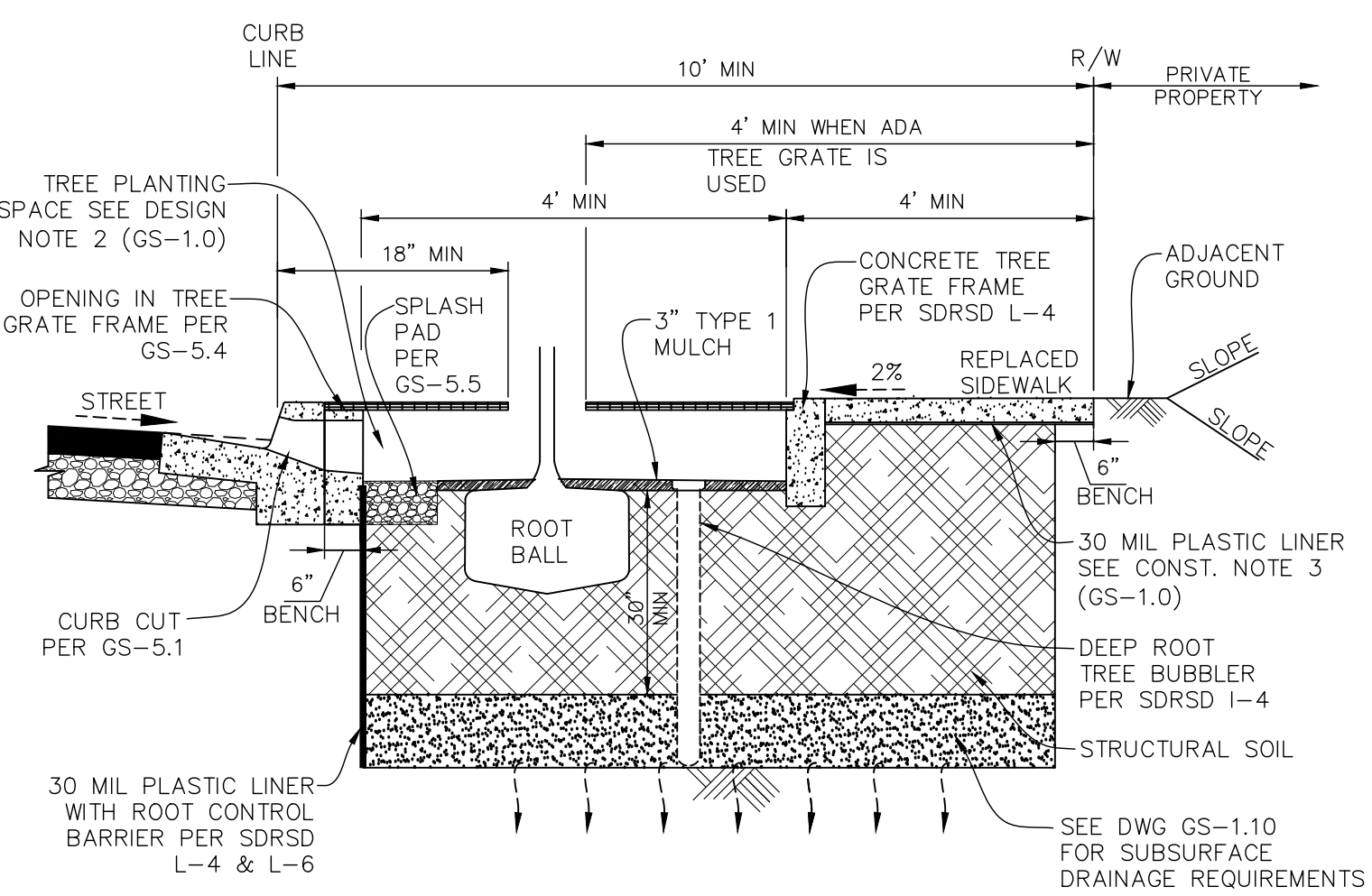
SECTION A-A'  
NOT TO SCALE  
IMPERVIOUS AREA DISPERSION  
NO SCALE  
SD-B



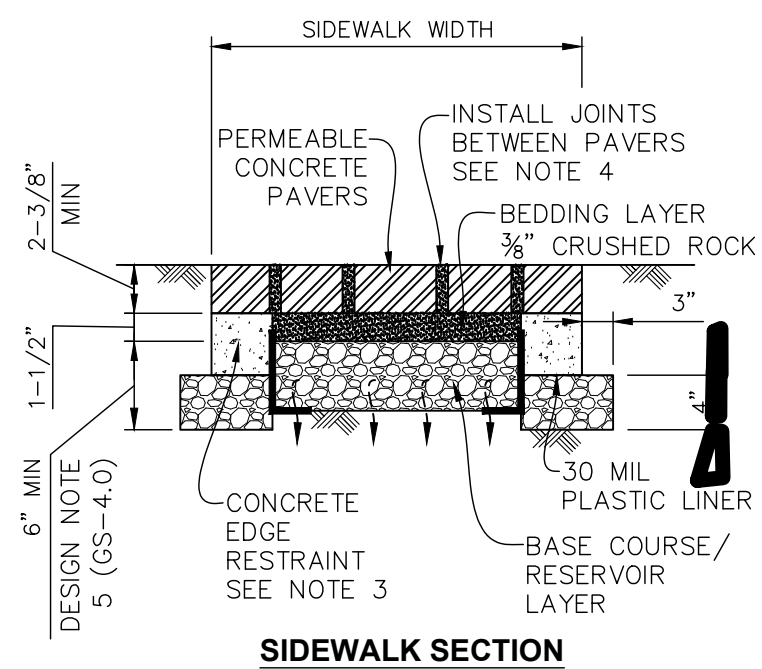
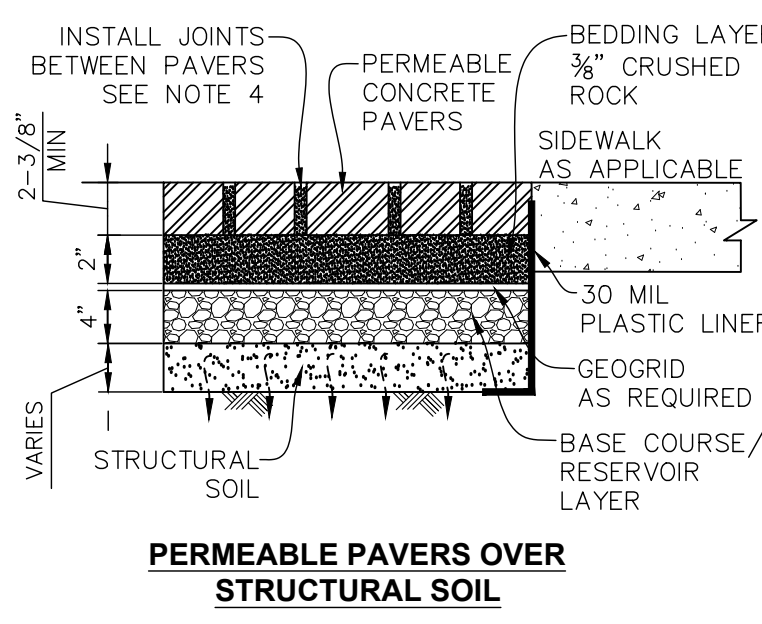
TREE WELL  
NO SCALE  
SD-A



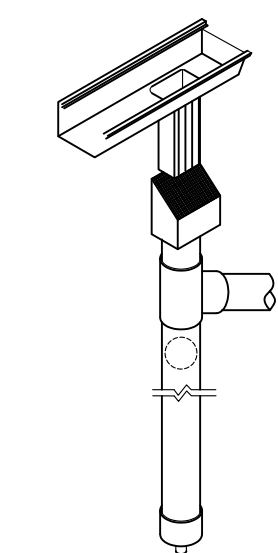
RAIN BARREL  
NO SCALE  
SD-E



TYPICAL STORM DRAIN SIGNAGE  
NO SCALE  
SC-A



PERMEABLE PAVEMENT  
NO SCALE  
SD-D



COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	XX SHEETS
			STORM WATER QUALITY SITE DESIGN & SOURCE CONTROL BMP DETAILS FOR:		
			XXXXXXXX XXXXXX		
			CALIFORNIA COORDINATE INDEX XXX-XXXX		
			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		
			ENGINEER OF WORK: R.C.E.		
			GRADING PERMIT NO: PDS20XX-LDGXXX-XXXX		



EROSION CONTROL NOTES

- ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
- MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
- AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS BETWEEN OCTOBER 1 AND APRIL 15. APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF THE SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE SAND BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

PLANTING & IRRIGATION NOTES

ALL PERMANENT AND TEMPORARY EROSION CONTROL PLANTING AND IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY SECTIONS 87.417 AND 87.418 OF THE COUNTY'S GRADING ORDINANCE AND SHALL BE COMPLIANT WITH THE COUNTY'S WATER CONSERVATION IN LANDSCAPE ORDINANCE, THE WATER EFFICIENT LANDSCAPE DESIGN MANUAL, AND THE BMP DESIGN MANUAL:

A. SLOPE EROSION CONTROL:

- AT A MINIMUM, ALL MANUFACTURED SLOPE AREAS SHALL BE COVERED WITHIN 10 DAYS OF COMPLETION OF GRADING WITH HYDROSEED/MULCH, PUNCHED STRAW MULCH, JUTE NETTING OR OTHER APPROVED GEOTEXTILE MATERIAL CAPABLE OF CONTROLLING SURFACE SOIL EROSION;
  - EXCEPT WHERE APPROVED OTHERWISE, ALL SLOPES AND ANY OTHER AREAS DISTURBED IN CONJUNCTION WITH GRADING ACTIVITIES SHALL BE MAINTAINED UNTIL VEGETATION IS WELL ESTABLISHED, WITH COVERAGE EQUAL TO AT LEAST 70 PERCENT OF COVERAGE, AS COMPARED TO THE NATIVE BACKGROUND PLANTS IS ACHIEVED. THIS THRESHOLD MUST BE MET BEFORE OCCUPANCY OF THE SITE WILL BE PERMITTED;
  - A MINIMUM OF 50 PERCENT OF THE TOTAL SLOPE AREAS OF MANUFACTURED SLOPES SHALL BE PLANTED WITH DEEP ROOTING PLANTINGS (I.E., THOSE WITH A TYPICAL ROOT DEPTH OF APPROXIMATELY 5 FEET OR GREATER). FOR SEEDED PLANTINGS, AT LEAST 50 PERCENT OF THE VIABLE SEED COUNT SHALL BE DEEP ROOTING SPECIES;
- ALL PLANT MATERIALS ON MANUFACTURED SLOPES SHALL BE APPROPRIATE TO THE SITE CONDITIONS, SHALL BE WATER EFFICIENT WHEN ESTABLISHED AND SHALL BE ADEQUATELY SPACED TO CONTROL SOIL EROSION;
  - ALL SLOPES IN EXCESS OF 15 FEET SHALL BE PLANTED WITH ROOTED CONTAINER STOCK AT AN AVERAGE RATE OF ONE PER 100 SQUARE FEET UNLESS APPROVED OTHERWISE. CONTAINERS SHALL BE A MINIMUM OF ONE GALLON FOR SHRUBS AND FIVE GALLON FOR TREES. ALL CONTAINER STOCK SHALL BE PROVIDED WITH A TEMPORARY IRRIGATION SYSTEM;
  - SLOPES GREATER THAN 25 PERCENT SHALL NOT BE IRRIGATED WITH AN IRRIGATION SYSTEM WITH A PRECIPITATION RATE EXCEEDING 0.75 INCHES PER HOUR.

B. IRRIGATION

- ALL IRRIGATION SYSTEMS SHALL BE INSTALLED TO AVOID RUNOFF, SEEPAGE, LOW HEAD DRAINAGE, OVER-SPRAY OR OTHER SIMILAR CONDITIONS ONTO ADJACENT PROPERTY, NON-IRRIGATED AREAS,WALKS, ROADWAYS OR STRUCTURES;
- APPROVED BACKFLOW PREVENTION UNITS ARE REQUIRED ON ALL POTABLE WATER IRRIGATION SYSTEMS;
- AFTER PLANT ESTABLISHMENT, THE IRRIGATION SYSTEM IS TO PROVIDE SUFFICIENT WATER TO SUSTAIN PLANTS IN A HEALTHY, GROWING CONDITION;
- LANDSCAPE WATER METERS, SHALL BE INSTALLED FOR ALL NON-RESIDENTIAL IRRIGATED LANDSCAPES OF 1,000 SQ. FT. OR MORE, AND FOR ALL RESIDENTIAL IRRIGATED LANDSCAPES OF 5,000 SQ. FT. OR GREATER. A LANDSCAPE WATER METER SHALL BE EITHER A CUSTOMER SERVICE METER DEDICATED TO LANDSCAPE USE PROVIDED BY THE LOCAL WATER PURVEYOR; OR A PRIVATELY OWNED METER OR SUB-METER;
- FLOW SENSORS THAT DETECT AND REPORT HIGH FLOW CONDITIONS CREATED BY SYSTEM DAMAGE OR MALFUNCTION ARE REQUIRED FOR ALL NON-RESIDENTIAL LANDSCAPES, AND RESIDENTIAL LANDSCAPES OF 5,000 SQ. FT. OR LARGER;
- MASTER SHUT-OFF VALVES ARE REQUIRED;
- AUTOMATIC CONTROL SYSTEMS ARE REQUIRED, AND MUST BE ABLE TO ACCOMMODATE ALL ASPECTS OF THE INSTALLED EROSION CONTROL LANDSCAPE, INCLUDING MULTIPLE SCHEDULES, REPEAT CYCLES, EVAPOTRANSPIRATION OR SOIL MOISTURE SENSING AND RAIN SENSING OVERRIDE DEVICES. CONTROL MECHANISMS FOR AN EVAPOTRANSPIRATION (WEATHER BASED) SYSTEM OR SOIL MOISTURE DETECTING SYSTEMS, UTILIZING NON-VOLATILE MEMORY SHALL BE ACCOMMODATED WITHIN THE CONTROLLER ENCLOSURE. BATTERY OPERATED VALVES OR SOLAR POWERED CONTROLLERS MAY BE USED IN AREAS WHERE ELECTRICITY IS NOT YET AVAILABLE, HOWEVER, WHEN AVAILABLE, SYSTEMS SHALL BE CONVERTED;

- ALL IRRIGATION SYSTEMS SHALL BE ADJUSTED SEASONALLY AND AS WEATHER AND PLANT CONDITIONS WARRANT;
  - SHUTOFF VALVES SHALL BE PROVIDED AT POINTS OF CONNECTION TO DIVIDE THE IRRIGATION SYSTEM INTO CONTROLLABLE UNITS. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED FOR ALL IRRIGATION SYSTEMS;
  - PERMANENT ON-GRADE SYSTEMS MAY ONLY BE ALLOWED FOR AREAS WITH HIGHLY EROSION OR ROCKY SOILS AND SHALL NOT BE ALLOWED ADJACENT TO PEDESTRIAN TRAFFIC;
  - ALL ON-GRADE LINES SHALL BE SECURED TO SLOPES EVERY TEN FEET OR LESS. THE ENDS OF ALL LATERALS SHALL ALSO BE STAKED;
  - ON-GRADE LATERAL PIPING IS ALLOWED FOR TEMPORARY SYSTEMS;
  - ALL REQUIRED LANDSCAPING SHALL BE PLANTED AND IRRIGATION SYSTEMS INSTALLED PRIOR TO THE ROUGH GRADING INSPECTION. THE COUNTY OFFICIAL SHALL DETERMINE AT FINAL GRADING INSPECTION THAT PLANTING IS ESTABLISHED AND THAT ALL IRRIGATION SYSTEMS ARE OPERATIONAL;
- C. SLOPE HYDROSEEDING MIX SHALL CONSIST OF THE FOLLOWING:

- NON-IRRIGATED SEED MIX SHALL NOT BE ALLOWED AND NO INVASIVE, FIRE PRONE SPECIES SHALL BE INCLUDED;
- SEED MIX SHALL CONSIST OF NO LESS THAN:
  - ALL SEED MATERIALS SHALL BE TRANSPORTED TO THE JOBSITE IN UNOPENED CONTAINERS WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE CERTIFICATION TAG ATTACHED TO, OR PRINTED ON SAID CONTAINERS.
  - NON-PHYTO-TOXIC WETTING AGENTS MAY BE ADDED TO THE HYDROSEED SLURRY AT THE DISCRETION OF THE CONTRACTOR.
- TYPE 1 MULCH APPLIED AT THE RATE OF NO LESS THAN 2000 LBS. PER ACRE. TYPE 6 MULCH (STRAW) MAY BE SUBSTITUTED, ALL OR PART, FOR HYDRAULICALLY APPLIED FIBER MATERIAL. WHEN STRAW IS USED IT MUST BE ANCHORED TO THE SLOPE BY MECHANICALLY PUNCHING NO LESS THAN 50% OF THE STRAW INTO THE SOIL.
- FERTILIZER CONSISTING OF AMMONIUM PHOSPHATE, SULFATE, 16-20-0, WITH 15% SULPHUR APPLIED AT THE RATE OF 500 LBS. PER ACRE.
- AREAS TO BE HYDROSEEDDED SHALL BE PREPARED PRIOR TO HYDROSEEDING BY:
  - ROUGHENING THE SURFACE TO BE PLANTED BY ANY OR COMBINATION OF:
    - TRACK WALKING SLOPES STEEPER THAN 6:1
    - HARROWING AREAS 6:1 OR FLATTER THAT ARE SUFFICIENTLY FRIABLE.
    - RIPPING AREAS THAT WILL NOT BREAK UP USING ITEMS a.d. OR a.b. ABOVE.
- CONDITION THE SOILS SO THAT IT IS SUITABLE FOR PLANTING BY:
  - ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE A DAMP BUT NOT SATURATED SEED BED.
  - THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING OR COVERING SALINE SOILS TO PROVIDED VIABLE CONDITIONS FOR GROWTH.
- HYDROSEEDDED AREAS SHALL BE MAINTAINED TO PROVIDE A VIGOROUS GROWTH UNTIL THE PROJECT IS PERMANENTLY LANDSCAPED OR, FOR AREAS WHERE HYDROSEEDING IS THE PERMANENT LANDSCAPING, UNTIL THE PROJECT IS COMPLETED AND ALL GRADING BONDS RELEASED.

HYDROSEED NOTES:

- PRIOR TO THE ACCEPTANCE OF THE HYDROSEEDDED AREAS BY THE COUNTY , A CERTIFICATION REPORT MUST BE SUBMITTED BY A REGISTERED LANDSCAPE ARCHITECT, STATING THAT THE HYDROSEEDING WAS DONE ACCORDING TO THE PROJECT SPECIFICATIONS AND THAT THE GROWTH IS ADEQUATELY ESTABLISHED TO PREVENT EROSION.
  - ALL DISTURBED SLOPES TO BE HYDROSEEDDED UNLESS OTHERWISE NOTED.
- \*\* PROVIDE A PLANT LEGEND WITH BOTH BOTANICAL AND COMMON NAMES LISTED ALONG WITH SYMBOLS FOR IDENTIFICATION AND LOCATION. PROVIDE CONTAINER SIZES, QUANTITIES OF EACH SPECIES, AND ON CENTER SPACE REQUIREMENTS. NO INVASIVE OR FIRE PRONE SPECIES SHALL BE INTRODUCED TO THE SITE.
- \*\* PROVIDE A PLANT LEGEND OF ALL PROPOSED HYDROSEED SPECIES WITH BOTH BOTANICAL AND COMMON NAMES LISTED. INCLUDE POUNDS PER ACRE FOR EACH SEED SPECIES. NO INVASIVE OR FIRE PRONE SPECIES SHALL BE INTRODUCED TO SITE.

PLANT LEGEND:

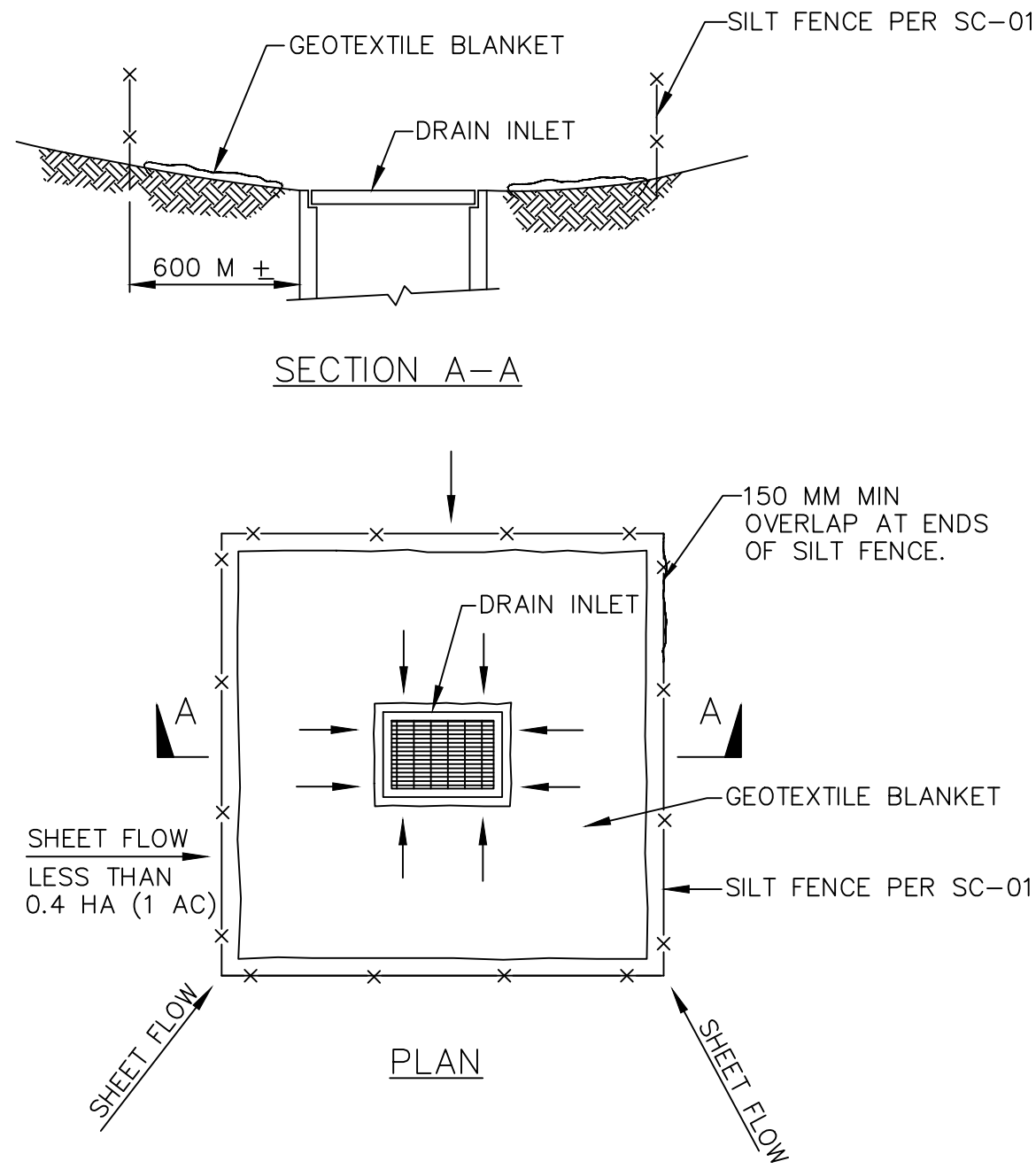
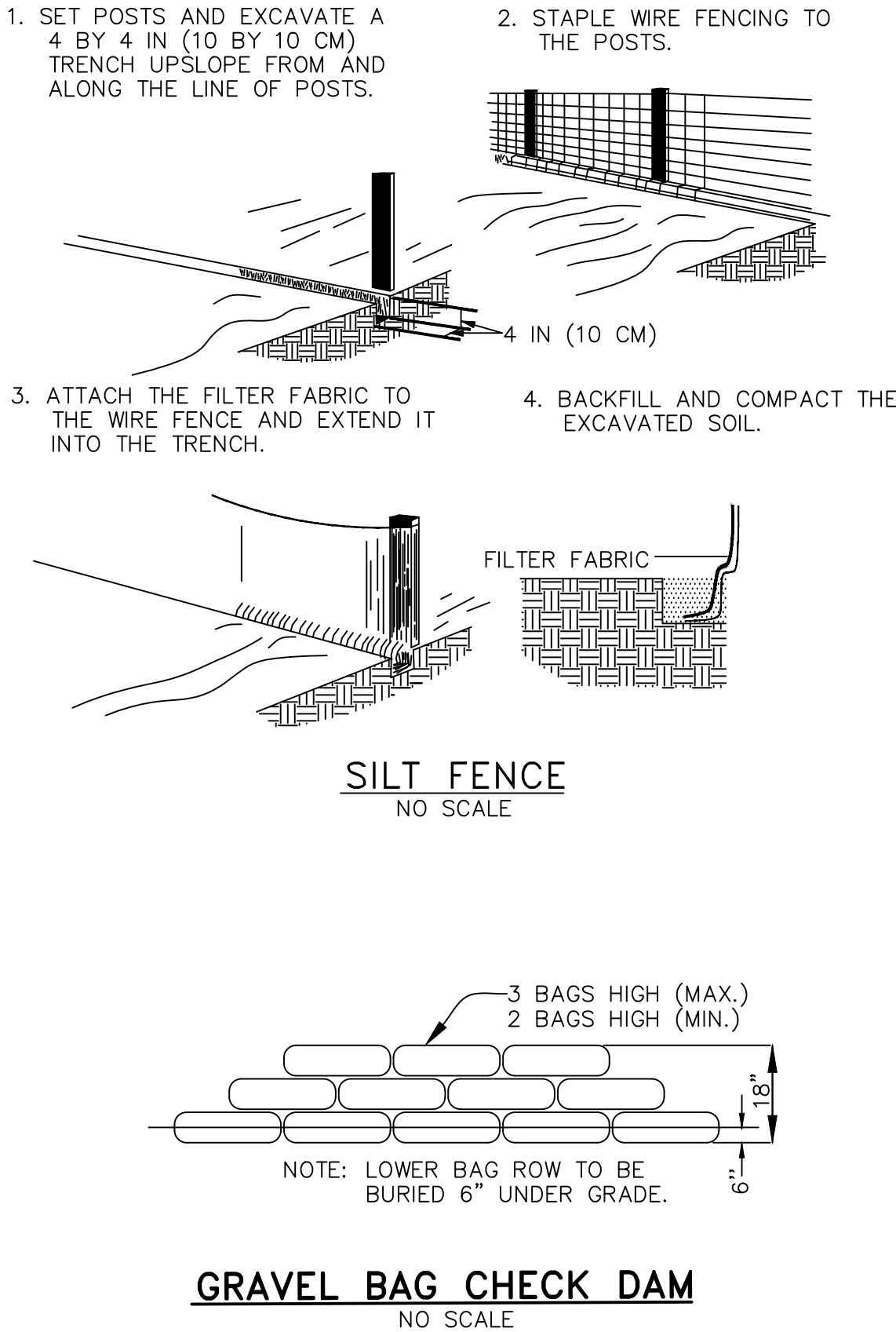
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- \*\* PROVIDE A PLANT LEGEND OF ALL PROPOSED HYDROSEED SPECIES WITH BOTH BOTANICAL AND COMMON NAMES LISTED. INCLUDE POUNDS PER ACRE FOR EACH SEED SPECIES. NO INVASIVE OR FIRE PRONE SPECIES SHALL BE INTRODUCED TO SITE.

NOTE:

VEGETATION STABILIZATION (PLANTING OR HYDROSEEDING) MAY BE INSTALLED BETWEEN MAY 1ST AND AUGUST 15TH. SLOPE IRRIGATION MUST BE IN PLACE AND TO BE OPERABLE FOR SLOPES >3%. VEGETATION MUST BE WATERED AND ESTABLISHED PRIOR TO OCTOBER 1ST. THE OWNER SHALL SUPPLEMENT VEGETATION WITH BARK OR MULCH BY OCTOBER 1ST IF VEGETATION ESTABLISHMENT DOES NOT OCCUR BY THAT DATE. EROSION CONTROL MEASURES MUST ALSO BE USED WHILE LANDSCAPING IS BEING ESTABLISHED. ESTABLISHED VEGETATION SHALL HAVE A SUBSURFACE MAT OF INTERTWINED MATURE ROOTS WITH A UNIFORM VEGETATION COVERAGE OF 70% OF THE NATURAL VEGETATIVE COVERAGE OR MORE ON ALL DISTURBED AREAS.

ALL SLOPES OVER THREE FEET MUST HAVE ESTABLISHED VEGETATIVE COVER PRIOR TO FINAL PERMIT APPROVAL

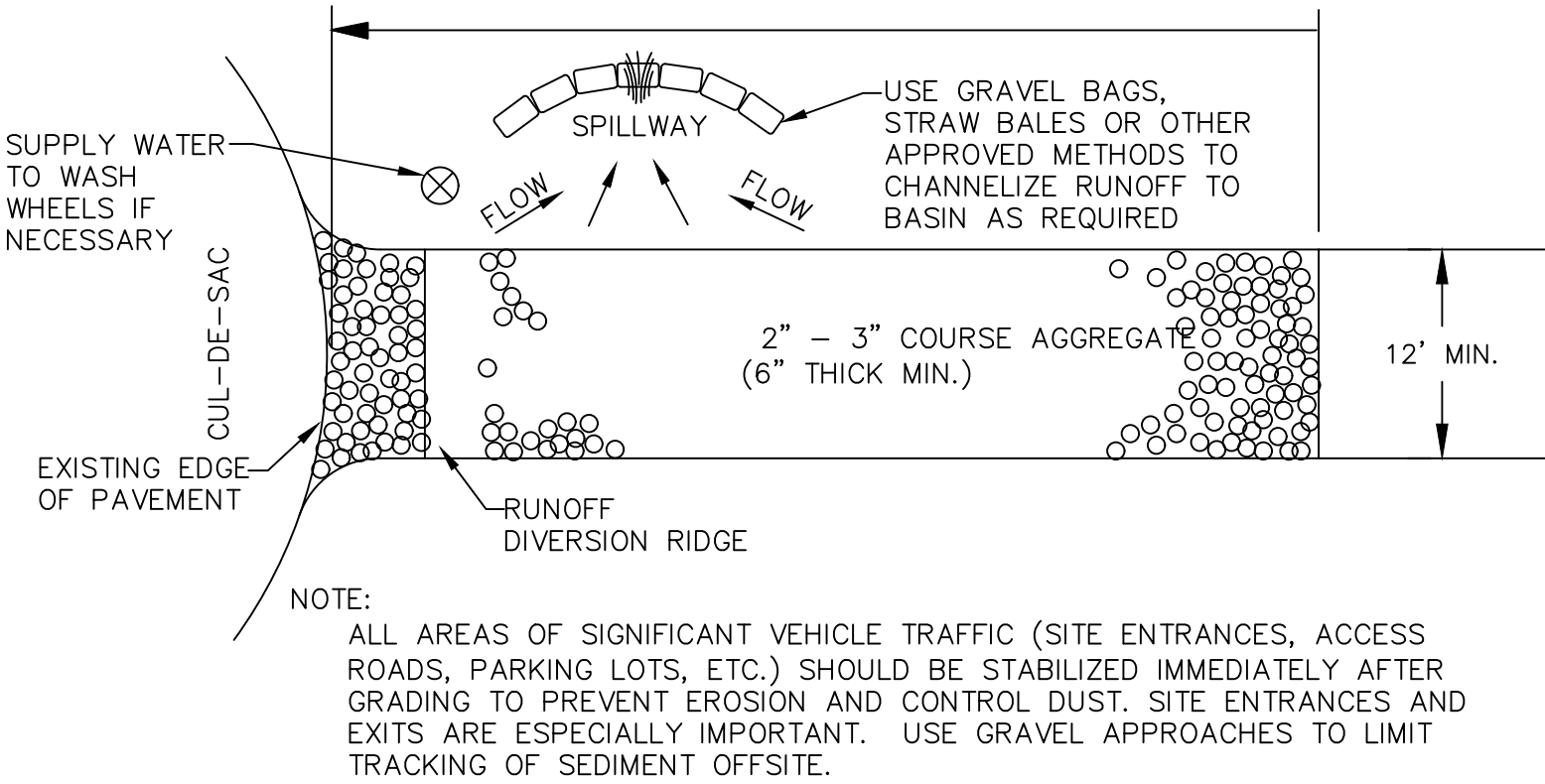
TYPICAL BMP DETAILS



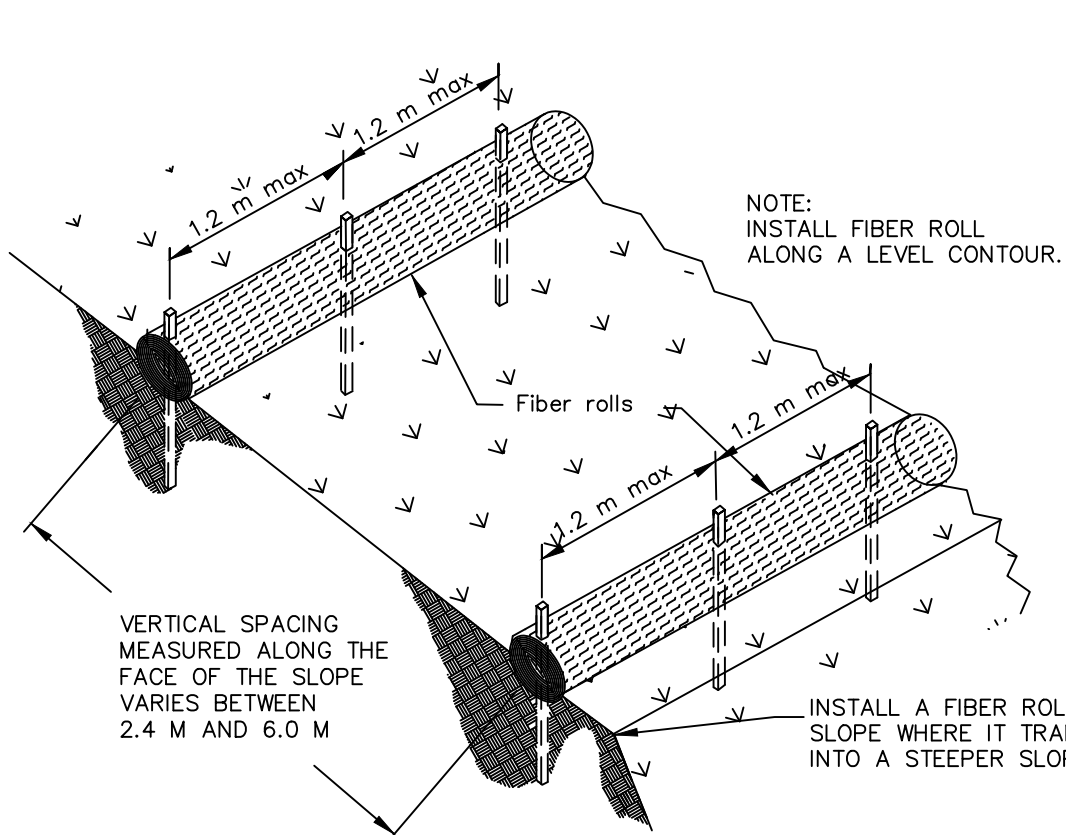
NOTES:

- FOR USE IN AREAS WHERE GRADING HAS BEEN COMPLETED AND FINAL SOIL STABILIZATION AND SEEDING ARE PENDING.
- NOT APPLICABLE IN PAVED AREAS.
- NOT APPLICABLE WITH CONCENTRATED FLOWS.

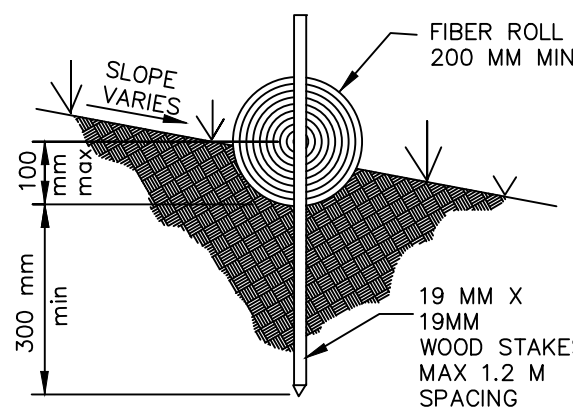
DRAIN INLET PROTECTION TYPE 1 NO SCALE



STABILIZED CONSTRUCTION ENTRANCE NO SCALE



TYPICAL FIBER ROLL INSTALLATION NO SCALE



ENTRENCHMENT DETAIL NO SCALE



CONSTRUCTION STORMWATER BMP LEGEND:

ITEMS	FACT SHEET/DETAILS	SYMBOL
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MATERIAL DELIVERY & STORAGE	WM-1	<div>WM-1</div>
SPILL PREVENTION AND CONTROL	WM-4	<div>WM-4</div>
CONCRETE WASTE MANAGEMENT	WM-8	<div>WM-8</div>
SOLID WASTE MANAGEMENT	WM-5	<div>WM-5</div>
SANITARY WASTE MANAGEMENT	WM-9	<div>WM-9</div>
HAZARDOUS WASTE MANAGEMENT	WM-6	<div>WM-6</div>
PRESERVATION OF EXISTING VEGETATION	SS-2	<div>PEV</div>
BONDED OR STABILIZED FIBER MATRIX (WINTER)	SS-3	<div>M</div>
HYDROSEEDING (SUMMER)	SS-4	<div>TSP</div>
STRAW OR WOOD MULCH	SS-6, SS-8	<div>S/W</div>
PHYSICAL STABILIZATION (WINTER)	SS-7	<div>EBM</div>
ENERGY DISSIPATOR	SS-10	<div></div>
SILT FENCE	SC-1, DETAIL SHEET 4	<div></div>
SEDIMENT / DESILTING BASIN	SC-2	<div></div>
FIBER ROLLS	SC-5, DETAIL SHEET 4	<div>FR</div>
GRAVEL OR SAND BAGS	SC-6, SC-8, DETAIL SHEET 4	<div></div>
STREET SWEEPING AND VACUUMING	SC-7	<div>SC-7</div>
STORM DRAIN INLET PROTECTION	SC-10, DETAIL SHEET 4	<div></div>
DEWATERING FILTRATION	NS-2	<div>DW</div>
STABILIZED CONSTRUCTION ENTRANCE	TC-1, DETAIL SHEET 4	<div></div>
CONSTRUCTION ROAD STABILIZATION	TC-2	<div></div>
ENTRANCE / EXIT TIRE WASH	TC-3	<div></div>

GRADING PLAN CERTIFICATION:

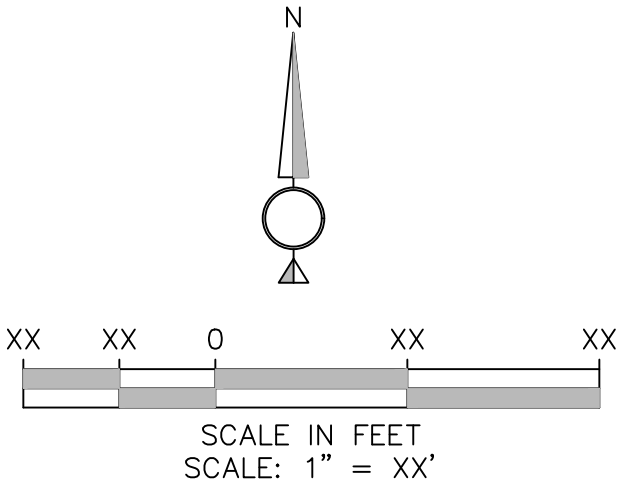
I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: \_\_\_\_\_DATE: \_\_\_\_\_

RCE NO.: \_\_\_\_\_

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: \_\_\_\_\_DATE: \_\_\_\_\_  
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES



COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 6	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	XX SHEETS
			EROSION CONTROL AND STORM WATER QUALITY BMP PLAN FOR:  XXXXXXX XXXXXXXX  CALIFORNIA COORDINATE INDEX      XXX-XXXX		
			APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER		
			ENGINEER OF WORK:  R.C.E.		
			SEE CERTIFICATION		
			GRADING PERMIT NO: PDS20XX-LDGRMN-2XXXX		